

**GOVERNMENT OF INDIA
MINISTRY OF COMMUNICATIONS
DEPARTMENT OF TELECOMMUNICATIONS**

**RAJYA SABHA
UNSTARRED QUESTION NO. 1165
TO BE ANSWERED ON 11TH FEBRUARY, 2022**

SALIENT FEATURES AND BENEFITS OF 5G TECHNOLOGY

**1165 SHRI Y.S. CHOWDARY:
SHRI VAIKO:**

Will the Minister of COMMUNICATIONS be pleased to state:

- (a) whether the indigenous 5G test bed project, funded by the Telecom Department, has reached the final stages;
- (b) if so, the details thereof;
- (c) the salient features of 5G technology for the consumers and the extent to which it would be useful to the general public, both cost-wise and benefit-wise;
- (d) whether it would disturb the wireless communication used for air traffic, as some flights to USA were cancelled, if so, the details thereof;
- (e) whether it would pave the way for setting up foundation for the development of '6G technology landscape' in the country; and
- (f) if so, the details thereof?

ANSWER

**MINISTER OF STATE FOR COMMUNICATIONS
(SHRI DEVUSINH CHAUHAN)**

- (a) The 'Indigenous 5G Test Bed' project, funded by Department of Telecommunications has been completed on 31st December, 2021.
- (b) The collaborating institutes in the 'Indigenous 5G Test Bed' project are IIT (Indian Institute of Technology) Madras, IIT Delhi, IIT Hyderabad, IIT Bombay, IIT Kanpur, IISc Bangalore, Society for Applied Microwave Electronics Engineering & Research (SAMEER) and Centre of Excellence in Wireless Technology (CEWiT). The Test Bed will greatly facilitate Indian academia and industry to validate their products, prototypes and algorithms in 5G environment.

(c) 5G technology is the next generation to the 4G mobile technology currently deployed in India. It will provide subscribers with substantially higher data speed than 4G. Besides, it will provide low-delay communications for critical applications. It will also support a very large number of machine-type communications.

(d) The frequency bands opened for International Mobile Telecommunications (IMT), including 5G Technology, in India have enough guard band to ensure that there is no aeronautical interference.

(e)&(f) Yes, Sir. Department of Telecommunications has constituted a Technology Innovation Group on 6G and various task forces comprising of members from academia and industry.
